

Highly Erodible Soil Map Unit List - Eastern Marshall County, MN

C = 0.25

R = 80

This data is only to be used for HEL determinations. This is the "frozen data" based on 01/01/1990 information.

Values other than "HELC" should only be used for PHEL.

| musym | muname | HELC | T | I | EI |
|--------------|---|-------------|----------|----------|-----------|
| 1297 | Augsburg very fine sandy loam | NHEL | 4 | 86 | 5.38 |
| I112A | Augsburg very fine sandy loam, 0 to 2 percent slopes | NHEL | 4 | 86 | 5.38 |
| I110A | Augsburg, Borup, and Colvin soils, very poorly drained, 0 to 1 percent slopes | NHEL | 4 | 86 | 5.38 |
| I467A | Bearden silt loam, 0 to 1 percent slopes | NHEL | 5 | 86 | 4.30 |
| 67A | Bearden silt loam, 0 to 2 percent slopes | NHEL | 5 | 86 | 4.30 |
| 67B | Bearden silt loam, 2 to 6 percent slopes | NHEL | 5 | 86 | 4.30 |
| I119A | Bearden silty clay loam, 0 to 1 percent slopes | NHEL | 5 | 86 | 4.30 |
| 93A | Bearden silty clay loam, 0 to 2 percent slopes | NHEL | 5 | 86 | 4.30 |
| 1963 | Bearden-Colvin complex | NHEL | 5 | 86 | 4.30 |
| I123A | Bearden-Colvin silty clay loams, 0 to 2 percent slopes | NHEL | 5 | 86 | 4.30 |
| I71A | Berner and Cathro soils, ponded, 0 to 1 percent slopes | HEL | 4 | 134 | 8.38 |
| I99A | Berner muck, dense till, 0 to 1 percent slopes | HEL | 4 | 134 | 8.38 |
| I79A | Berner, Cathro, and Haug soils, ponded, 0 to 1 percent slopes | HEL | 4 | 134 | 8.38 |
| 1143 | Berner-Markey complex | HEL | 4 | 134 | 8.38 |
| I816A | Berner-Markey mucks, 0 to 1 percent slopes | HEL | 4 | 134 | 8.38 |
| 644 | Boash clay loam | NHEL | 5 | 86 | 4.30 |
| I73A | Boash clay loam, 0 to 2 percent slopes | NHEL | 5 | 86 | 4.30 |
| 1299 | Borup very fine sandy loam | NHEL | 4 | 86 | 5.38 |
| 544 | Cathro muck | NHEL | 5 | 134 | 6.70 |
| I8A | Cathro muck, 0 to 1 percent slopes | NHEL | 5 | 134 | 6.70 |
| I82A | Cathro muck, dense till, 0 to 1 percent slopes | NHEL | 5 | 134 | 6.70 |
| 1807 | Cathro muck, ponded | NHEL | 5 | 134 | 6.70 |
| 794 | Clearriver loamy fine sand | NHEL | 5 | 134 | 6.70 |
| 641 | Clearwater clay | NHEL | 5 | 86 | 4.30 |
| I9A | Clearwater clay, 0 to 2 percent slopes | NHEL | 5 | 86 | 4.30 |
| 642 | Clearwater loam | NHEL | 5 | 56 | 2.80 |
| I10A | Clearwater mucky clay loam, 0 to 1 percent slopes | NHEL | 5 | 134 | 6.70 |
| 1189 | Clearwater mucky loam, depressional | NHEL | 5 | 134 | 6.70 |
| I620A | Clearwater-Reis clay loams, 0 to 2 percent slopes | NHEL | 5 | 86 | 4.30 |
| 936 | Clearwater-Reis complex | NHEL | 5 | 86 | 4.30 |
| 47 | Colvin silty clay loam | NHEL | 5 | 86 | 4.30 |
| I376A | Colvin silty clay loam, 0 to 1 percent slopes | NHEL | 5 | 86 | 4.30 |
| 1964 | Colvin-Fargo complex | NHEL | 5 | 86 | 4.30 |
| I124A | Colvin-Fargo complex, 0 to 2 percent slopes | NHEL | 5 | 86 | 4.30 |
| 721B | Corliss loamy sand, 1 to 6 percent slopes | NHEL | 5 | 134 | 6.70 |
| I727B | Corliss loamy sand, 1 to 6 percent slopes | NHEL | 5 | 134 | 6.70 |

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|-------|---|------|---|-----|-------|
| 117 | Cormant loamy fine sand | NHEL | 5 | 134 | 6.70 |
| I97A | Cormant loamy fine sand, dense till, 0 to 2 percent slopes | NHEL | 5 | 134 | 6.70 |
| I573A | Cormant loamy sand, 0 to 2 percent slopes | NHEL | 5 | 134 | 6.70 |
| 547 | Deerwood muck | HEL | 3 | 134 | 11.17 |
| I11A | Deerwood muck, 0 to 1 percent slopes | HEL | 3 | 134 | 11.17 |
| I77A | Deerwood muck, dense till, 0 to 1 percent slopes | HEL | 3 | 134 | 11.17 |
| 550 | Dora muck | HEL | 4 | 134 | 8.38 |
| I739A | Dora muck, 0 to 1 percent slopes | HEL | 4 | 134 | 8.38 |
| 1187 | Dora muck, ponded | NHEL | 4 | 134 | 8.38 |
| I740A | Dora muck, ponded, 0 to 1 percent slopes | NHEL | 4 | 134 | 8.38 |
| 937 | Eaglepoint-Northcote complex | NHEL | 5 | 86 | 4.30 |
| 565 | Eckvoll loamy fine sand | NHEL | 5 | 134 | 6.70 |
| I12A | Eckvoll loamy fine sand, 0 to 3 percent slopes | NHEL | 5 | 134 | 6.70 |
| I804A | Eckvoll loamy fine sand, dense till, 0 to 3 percent slopes | NHEL | 5 | 134 | 6.70 |
| 145 | Enstrom loamy fine sand | NHEL | 5 | 134 | 6.70 |
| I747A | Enstrom loamy fine sand, 0 to 3 percent slopes | NHEL | 5 | 134 | 6.70 |
| I106A | Enstrom loamy fine sand, dense till, 0 to 3 percent slopes | NHEL | 5 | 134 | 6.70 |
| 645 | Espelie fine sandy loam | NHEL | 4 | 86 | 5.38 |
| I13A | Espelie fine sandy loam, till substratum, 0 to 2 percent slopes | NHEL | 4 | 86 | 5.38 |
| I229A | Fargo silty clay, 0 to 1 percent slopes | NHEL | 5 | 86 | 4.30 |
| 57A | Fargo silty clay, 0 to 2 percent slopes | NHEL | 5 | 86 | 4.30 |
| 1871 | Fargo silty clay, swales | NHEL | 5 | 86 | 4.30 |
| 66 | Flaming loamy fine sand | NHEL | 5 | 134 | 6.70 |
| I109A | Fluvaquents, 0 to 2 percent slopes, frequently flooded | NHEL | 5 | 86 | 4.30 |
| I16F | Fluvaquents,frequently flooded-Hapludolls complex, 0 to 30 percent slopes | NHEL | 5 | 86 | 4.30 |
| 1006 | Fluvaquents-Haploborolls complex, 0 to 30 percent slopes, flooded | NHEL | 5 | 86 | 4.30 |
| I114A | Foldahl fine sandy loam, dense till, 0 to 3 percent slopes | NHEL | 5 | 134 | 6.70 |
| I17A | Foldahl fine sandy loam, loamy till substratum, 0 to 3 percent slopes | NHEL | 5 | 134 | 6.70 |
| 426 | Foldahl loamy fine sand | NHEL | 5 | 134 | 6.70 |
| I18A | Foldahl loamy fine sand, loamy till substratum, 0 to 3 percent slopes | NHEL | 5 | 134 | 6.70 |
| 65 | Foxhome sandy loam | NHEL | 3 | 86 | 7.17 |
| I19A | Foxhome sandy loam, 0 to 3 percent slopes | NHEL | 3 | 86 | 7.17 |
| I101A | Foxhome sandy loam, dense till, 0 to 3 percent slopes | NHEL | 3 | 86 | 7.17 |
| I20A | Foxlake loam, 0 to 2 percent slopes | NHEL | 5 | 86 | 4.30 |
| 77 | Garnes fine sandy loam | NHEL | 5 | 48 | 2.40 |
| I693A | Garnes fine sandy loam, 0 to 3 percent slopes | NHEL | 5 | 48 | 2.40 |
| I507B | Glyndon loam, dry, 2 to 6 percent slopes | NHEL | 5 | 86 | 4.30 |
| 1304A | Glyndon very fine sandy loam, 0 to 2 percent slopes | NHEL | 5 | 86 | 4.30 |
| I23A | Glyndon very fine sandy loam, 0 to 2 percent slopes | NHEL | 5 | 86 | 4.30 |
| 1304B | Glyndon very fine sandy loam, 2 to 6 percent slopes | NHEL | 5 | 86 | 4.30 |
| I121A | Glyndon-Ulen complex, 0 to 2 percent slopes | NHEL | 5 | 134 | 6.70 |
| 59 | Grimstad fine sandy loam | NHEL | 5 | 86 | 4.30 |
| I113A | Grimstad fine sandy loam, dense till, 0 to 2 percent slopes | NHEL | 5 | 86 | 4.30 |

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|-------|---|------|---|-----|-------|
| 482 | Grygla loamy fine sand | NHEL | 5 | 134 | 6.70 |
| I756A | Grygla loamy fine sand, 0 to 2 percent slopes | NHEL | 5 | 134 | 6.70 |
| I116A | Grygla loamy fine sand, dense till, 0 to 2 percent slopes | NHEL | 5 | 134 | 6.70 |
| 372 | Hamar loamy fine sand | NHEL | 5 | 134 | 6.70 |
| I25A | Hamar loamy fine sand, 0 to 2 percent slopes | NHEL | 5 | 134 | 6.70 |
| I26A | Hamerly loam, 0 to 2 percent slopes | NHEL | 5 | 86 | 4.30 |
| 184A | Hamerly loam, 0 to 3 percent slopes | NHEL | 5 | 86 | 4.30 |
| 1878 | Hamre muck | NHEL | 5 | 134 | 6.70 |
| I27A | Hamre muck, 0 to 1 percent slopes | NHEL | 5 | 134 | 6.70 |
| 1804 | Hamre muck, ponded | NHEL | 5 | 134 | 6.70 |
| 111 | Hangaard sandy loam | HEL | 2 | 86 | 10.75 |
| I28A | Hangaard sandy loam, 0 to 2 percent slopes | HEL | 2 | 86 | 10.75 |
| I105A | Hangaard sandy loam, dense till, 0 to 2 percent slopes | HEL | 2 | 86 | 10.75 |
| 187 | Haug muck | NHEL | 5 | 134 | 6.70 |
| I88A | Haug muck, 0 to 1 percent slopes | NHEL | 5 | 134 | 6.70 |
| I15A | Hecla loamy fine sand, 0 to 3 percent slopes | NHEL | 5 | 134 | 6.70 |
| 935 | Hegne-Fargo complex | NHEL | 5 | 86 | 4.30 |
| I130A | Hegne-Fargo silty clays, 0 to 2 percent slopes | NHEL | 5 | 86 | 4.30 |
| 647 | Hilaire loamy fine sand | HEL | 4 | 134 | 8.38 |
| I33A | Hilaire loamy fine sand, 0 to 3 percent slopes | HEL | 4 | 134 | 8.38 |
| 643 | Huot fine sandy loam | NHEL | 4 | 86 | 5.38 |
| I34A | Huot fine sandy loam, clayey till substratum, 0 to 3 percent slopes | NHEL | 4 | 86 | 5.38 |
| 205 | Karlstad loamy sand | HEL | 3 | 134 | 11.17 |
| I76A | Karlstad loamy sand, 0 to 3 percent slopes | HEL | 3 | 134 | 11.17 |
| 58 | Kittson loam | NHEL | 5 | 56 | 2.80 |
| I690A | Kittson loam, wet, 0 to 3 percent slopes | NHEL | 5 | 56 | 2.80 |
| I37A | Kratka and Strathcona soils, 0 to 1 percent slopes | NHEL | 5 | 86 | 4.30 |
| 481 | Kratka fine sandy loam | NHEL | 5 | 86 | 4.30 |
| I38A | Kratka fine sandy loam, 0 to 2 percent slopes | NHEL | 5 | 86 | 4.30 |
| I103A | Kratka fine sandy loam, dense till, 0 to 2 percent slopes | NHEL | 5 | 86 | 4.30 |
| 418 | Lamoure silty clay loam, occasionally flooded | NHEL | 5 | 86 | 4.30 |
| 713 | Linveltdt fine sandy loam | NHEL | 5 | 134 | 6.70 |
| I39A | Linveltdt fine sandy loam, 0 to 3 percent slopes | NHEL | 5 | 134 | 6.70 |
| I811A | Linveltdt fine sandy loam, dense till, 0 to 3 percent slopes | NHEL | 5 | 134 | 6.70 |
| 546 | Lupton muck | NHEL | 5 | 134 | 6.70 |
| 543 | Markey muck | HEL | 4 | 134 | 8.38 |
| I41A | Markey muck, 0 to 1 percent slopes | HEL | 4 | 134 | 8.38 |
| 1808 | Markey muck, ponded | NHEL | 4 | 134 | 8.38 |
| I42A | Markey muck, ponded, 0 to 1 percent slopes | HEL | 4 | 134 | 8.38 |
| 242B | Marquette loamy sand, 1 to 8 percent slopes | HEL | 2 | 134 | 16.75 |
| I78B | Marquette loamy sand, 1 to 8 percent slopes | HEL | 2 | 134 | 16.75 |
| 412 | Mavie fine sandy loam | NHEL | 3 | 86 | 7.17 |
| I43A | Mavie fine sandy loam, 0 to 2 percent slopes | NHEL | 3 | 86 | 7.17 |

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|-------|---|------|---|-----|------|
| I102A | Mavie fine sandy loam, dense till, 0 to 2 percent slopes | NHEL | 3 | 86 | 7.17 |
| IM-W | Miscellaneous water | NHEL | | | |
| 583 | Nereson fine sandy loam | NHEL | 5 | 86 | 4.30 |
| I89A | Nereson fine sandy loam, 0 to 3 percent slopes, very cobbly | NHEL | 5 | 86 | 4.30 |
| 648 | Newfolden loam | NHEL | 5 | 56 | 2.80 |
| I44A | Newfolden loam, 0 to 3 percent slopes | NHEL | 5 | 56 | 2.80 |
| I133A | Northcote clay, 0 to 1 percent slopes | NHEL | 5 | 86 | 4.30 |
| 429A | Northcote clay, 0 to 2 percent slope | NHEL | 5 | 86 | 4.30 |
| I132A | Northcote-Eaglepoint clays, 0 to 2 percent slopes | NHEL | 5 | 86 | 4.30 |
| 563 | Northwood muck | NHEL | 5 | 134 | 6.70 |
| I45A | Northwood muck, 0 to 1 percent slopes | NHEL | 5 | 134 | 6.70 |
| I81A | Northwood muck, dense till, 0 to 1 percent slopes | NHEL | 5 | 134 | 6.70 |
| 1146 | Northwood muck, ponded | NHEL | 5 | 134 | 6.70 |
| 280 | Pelan sandy loam | HEL | 3 | 86 | 7.17 |
| I72A | Pelan sandy loam, 0 to 3 percent slopes | HEL | 3 | 86 | 7.17 |
| I87A | Pelan sandy loam, dense till, 0 to 3 percent slopes | HEL | 3 | 86 | 7.17 |
| 383 | Percy loam | NHEL | 5 | 86 | 4.30 |
| I84A | Percy loam, 0 to 2 percent slopes, very cobbly | NHEL | 5 | 134 | 6.70 |
| 379 | Percy loam, very cobbly | NHEL | 5 | 86 | 4.30 |
| I86A | Percy mucky loam, 0 to 1 percent slopes | NHEL | 5 | 86 | 4.30 |
| 384 | Percy mucky loam, depressional | NHEL | 5 | 134 | 6.70 |
| IGp | Pits, gravel and sand | NHEL | 5 | 134 | 6.70 |
| 1030 | Pits, gravel-Udipsamments complex | NHEL | 5 | 134 | 6.70 |
| 148 | Poppleton fine sand | NHEL | 5 | 134 | 6.70 |
| I47A | Poppleton fine sand, 0 to 2 percent slopes | NHEL | 5 | 134 | 6.70 |
| I118A | Poppleton fine sand, dense till, 0 to 2 percent slopes | NHEL | 5 | 134 | 6.70 |
| 1874 | Radium loamy sand | NHEL | 5 | 134 | 6.70 |
| I48A | Radium loamy sand, 0 to 3 percent slopes | NHEL | 5 | 134 | 6.70 |
| I75A | Radium-Sandberg-Garborg complex, 0 to 3 percent slopes | NHEL | 5 | 134 | 6.70 |
| 116 | Redby loamy fine sand | NHEL | 5 | 134 | 6.70 |
| I90A | Redby loamy fine sand, dense till, 0 to 3 percent slopes | NHEL | 5 | 134 | 6.70 |
| 650 | Reiner fine sandy loam | NHEL | 5 | 86 | 4.30 |
| I50A | Reiner fine sandy loam, 0 to 3 percent slopes | NHEL | 5 | 86 | 4.30 |
| 649 | Reiner loamy fine sand | NHEL | 5 | 134 | 6.70 |
| I51A | Reiner loamy fine sand, 0 to 3 percent slopes | NHEL | 5 | 134 | 6.70 |
| I822A | Reiner loamy fine sand, dense till, 0 to 3 percent slopes | NHEL | 5 | 134 | 6.70 |
| I52A | Reis-Clearwater complex, 0 to 2 percent slopes | NHEL | 5 | 86 | 4.30 |
| 541 | Rifle mucky peat | NHEL | 5 | 56 | 2.80 |
| I260A | Rifle mucky peat, 0 to 1 percent slopes | NHEL | 5 | 56 | 2.80 |
| I171A | Rockwell fine sandy loam, 0 to 1 percent slopes | NHEL | 3 | 86 | 7.17 |
| 582 | Roliss loam | NHEL | 5 | 48 | 2.40 |
| I53A | Roliss loam, 0 to 2 percent slopes | NHEL | 5 | 48 | 2.40 |
| I705A | Roliss loam, dense till, 0 to 2 percent slopes | NHEL | 5 | 48 | 2.40 |

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|-------|--|------|---|-----|------|
| 387 | Roliss loam, depressional | NHEL | 5 | 48 | 2.40 |
| I54A | Roliss loam, very poorly drained, 0 to 1 percent slopes | NHEL | 5 | 48 | 2.40 |
| I706A | Roliss loam, very poorly drained, dense till, 0 to 1 percent slopes | NHEL | 5 | 48 | 2.40 |
| 972 | Roliss-Vallers complex | NHEL | 5 | 86 | 4.30 |
| I707A | Roliss-Vallers loams, 0 to 1 percent slopes | NHEL | 5 | 48 | 2.40 |
| 712 | Rosewood fine sandy loam | NHEL | 3 | 86 | 7.17 |
| I55A | Rosewood fine sandy loam, 0 to 2 percent slopes | NHEL | 3 | 86 | 7.17 |
| I91A | Rosewood fine sandy loam, dense till, 0 to 2 percent slopes | NHEL | 3 | 86 | 7.17 |
| I788A | Rosewood, Strathcona, and Berner soils, 0 to 2 percent slopes | NHEL | 3 | 86 | 7.17 |
| 1882 | Rosewood, Strathcona, and Berner soils, seepy | NHEL | 3 | 86 | 7.17 |
| 1966 | Rosewood-Hamar complex | NHEL | 3 | 86 | 7.17 |
| 708 | Rushlake loamy sand | NHEL | 5 | 134 | 6.70 |
| I824A | Rushlake loamy sand, 0 to 3 percent slopes | NHEL | 5 | 134 | 6.70 |
| 1191 | Sahkahtay sandy loam | NHEL | 5 | 86 | 4.30 |
| 258B | Sandberg loamy sand, 1 to 6 percent slopes | NHEL | 5 | 134 | 6.70 |
| I57B | Sandberg-Radium complex, 1 to 6 percent slopes | NHEL | 5 | 134 | 6.70 |
| 540 | Seelyeville muck | NHEL | 5 | 134 | 6.70 |
| I58A | Seelyeville muck, 0 to 1 percent slopes | NHEL | 5 | 134 | 6.70 |
| 1031 | Seelyeville muck, ponded | NHEL | 5 | 134 | 6.70 |
| 1158 | Skagen loam | NHEL | 5 | 86 | 4.30 |
| I125A | Skagen loam, 0 to 3 percent slopes | NHEL | 5 | 86 | 4.30 |
| I117A | Skagen loam, 0 to 3 percent slopes, very cobbly | NHEL | 5 | 86 | 4.30 |
| 1170 | Skagen loam, very cobbly | NHEL | 5 | 86 | 4.30 |
| 765 | Smiley loam | NHEL | 5 | 56 | 2.80 |
| I59A | Smiley loam, 0 to 2 percent slopes | NHEL | 5 | 56 | 2.80 |
| I60A | Smiley mucky loam, 0 to 1 percent slopes | NHEL | 5 | 56 | 2.80 |
| 653 | Smiley mucky loam, depressional | NHEL | 5 | 56 | 2.80 |
| 432 | Strandquist loam | NHEL | 3 | 86 | 7.17 |
| I61A | Strandquist loam, 0 to 2 percent slopes | NHEL | 3 | 86 | 7.17 |
| I104A | Strandquist loam, dense till, 0 to 2 percent slopes | NHEL | 3 | 86 | 7.17 |
| 1144 | Strathcona and Kratka soils, depressional | NHEL | 5 | 86 | 4.30 |
| 439 | Strathcona fine sandy loam | NHEL | 5 | 86 | 4.30 |
| I94A | Strathcona fine sandy loam, dense till, 0 to 2 percent slopes | NHEL | 5 | 86 | 4.30 |
| 435 | Syrene sandy loam | NHEL | 3 | 86 | 7.17 |
| I62A | Syrene sandy loam, 0 to 2 percent slopes | NHEL | 3 | 86 | 7.17 |
| I108A | Syrene sandy loam, dense till, 0 to 2 percent slopes | NHEL | 3 | 86 | 7.17 |
| 514 | Tacoosh muck | NHEL | 5 | 56 | 2.80 |
| 651 | Thiefriever fine sandy loam | NHEL | 3 | 86 | 7.17 |
| I850A | Thiefriever fine sandy loam, 0 to 2 percent slopes | NHEL | 3 | 86 | 7.17 |
| I63A | Thiefriever fine sandy loam, clayey till substratum, 0 to 2 percent slopes | NHEL | 3 | 86 | 7.17 |
| I64A | Ulen fine sandy loam, 0 to 3 percent slopes | NHEL | 5 | 134 | 6.70 |
| I98A | Ulen fine sandy loam, dense till, 0 to 3 percent slopes | NHEL | 5 | 134 | 6.70 |
| 1264 | Ulen loamy fine sand | NHEL | 5 | 134 | 6.70 |

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|-------|--|------|---|-----|-------|
| I65A | Ulen loamy fine sand, 0 to 3 percent slopes | NHEL | 5 | 134 | 6.70 |
| 236 | Vallers loam | NHEL | 5 | 86 | 4.30 |
| I66A | Vallers loam, 0 to 2 percent slopes | NHEL | 5 | 86 | 4.30 |
| 157A | Wahpeton silty clay, 0 to 2 percent slopes, occasionally flooded | NHEL | 5 | 86 | 4.30 |
| I248A | Wahpeton silty clay, 0 to 2 percent slopes, occasionally flooded | NHEL | 5 | 86 | 4.30 |
| 157B | Wahpeton silty clay, 2 to 6 percent slopes, occasionally flooded | NHEL | 5 | 86 | 4.30 |
| I248B | Wahpeton silty clay, 2 to 6 percent slopes, occasionally flooded | NHEL | 5 | 86 | 4.30 |
| I135B | Wahpeton-Ludden silty clays, 0 to 6 percent slopes, flooded | NHEL | 5 | 86 | 4.30 |
| W | Water | NHEL | | | |
| IWa | Water | NHEL | | | |
| W | Water | NHEL | | | |
| 1356 | Water, miscellaneous | NHEL | | | |
| 1315A | Wheatville very fine sandy loam, 0 to 2 percent slopes | NHEL | 4 | 86 | 5.38 |
| 630 | Wildwood muck | HEL | 3 | 134 | 11.17 |
| I833A | Wildwood muck, 0 to 1 percent slopes | HEL | 3 | 134 | 11.17 |
| 1188 | Wildwood muck, ponded | NHEL | 3 | 134 | 11.17 |
| 652 | Wyandotte clay loam | NHEL | 3 | 86 | 7.17 |
| I69A | Wyandotte clay loam, 0 to 2 percent slopes | NHEL | 3 | 86 | 7.17 |
| I150B | Zell, fine-silty-LaDelle silt loams, 2 to 6 percent slopes | NHEL | 5 | 86 | 4.30 |

Highly Erodible Soil Map Unit List - Western Marshall County, MN

C = .30

R = 70

This data is only to be used for HEL determinations. This is the "frozen data" based on 01/01/1990 information.

Values other than "HELC" should only be used for PHEL.

| musym | muname | HELC | T | I | EI |
|--------------|---|-------------|----------|----------|-----------|
| 1297 | Augsburg very fine sandy loam | NHEL | 4 | 86 | 6.45 |
| I112A | Augsburg very fine sandy loam, 0 to 2 percent slopes | NHEL | 4 | 86 | 6.45 |
| I110A | Augsburg, Borup, and Colvin soils, very poorly drained, 0 to 1 percent slopes | NHEL | 4 | 86 | 6.45 |
| I467A | Bearden silt loam, 0 to 1 percent slopes | NHEL | 5 | 86 | 5.16 |
| 67A | Bearden silt loam, 0 to 2 percent slopes | NHEL | 5 | 86 | 5.16 |
| 67B | Bearden silt loam, 2 to 6 percent slopes | NHEL | 5 | 86 | 5.16 |
| I119A | Bearden silty clay loam, 0 to 1 percent slopes | NHEL | 5 | 86 | 5.16 |
| 93A | Bearden silty clay loam, 0 to 2 percent slopes | NHEL | 5 | 86 | 5.16 |
| 1963 | Bearden-Colvin complex | NHEL | 5 | 86 | 5.16 |
| I123A | Bearden-Colvin silty clay loams, 0 to 2 percent slopes | NHEL | 5 | 86 | 5.16 |
| I71A | Berner and Cathro soils, ponded, 0 to 1 percent slopes | HEL | 4 | 134 | 10.05 |
| I99A | Berner muck, dense till, 0 to 1 percent slopes | HEL | 4 | 134 | 10.05 |
| I79A | Berner, Cathro, and Haug soils, ponded, 0 to 1 percent slopes | HEL | 4 | 134 | 10.05 |
| 1143 | Berner-Markey complex | HEL | 5 | 134 | 8.04 |
| I816A | Berner-Markey mucks, 0 to 1 percent slopes | HEL | 4 | 134 | 10.05 |
| 644 | Boash clay loam | NHEL | 5 | 86 | 5.16 |
| I73A | Boash clay loam, 0 to 2 percent slopes | NHEL | 5 | 86 | 5.16 |
| 1299 | Borup very fine sandy loam | NHEL | 4 | 86 | 6.45 |
| 544 | Cathro muck | HEL | 5 | 134 | 8.04 |
| I8A | Cathro muck, 0 to 1 percent slopes | HEL | 5 | 134 | 8.04 |
| I82A | Cathro muck, dense till, 0 to 1 percent slopes | HEL | 5 | 134 | 8.04 |
| 1807 | Cathro muck, ponded | NHEL | 5 | 134 | 8.04 |
| 794 | Clearriver loamy fine sand | HEL | 5 | 134 | 8.04 |
| 641 | Clearwater clay | NHEL | 5 | 86 | 5.16 |
| I9A | Clearwater clay, 0 to 2 percent slopes | NHEL | 5 | 86 | 5.16 |
| 642 | Clearwater loam | NHEL | 5 | 56 | 3.36 |
| I10A | Clearwater mucky clay loam, 0 to 1 percent slopes | HEL | 5 | 134 | 8.04 |
| 1189 | Clearwater mucky loam, depressional | HEL | 5 | 134 | 8.04 |
| I620A | Clearwater-Reis clay loams, 0 to 2 percent slopes | NHEL | 5 | 86 | 5.16 |
| 936 | Clearwater-Reis complex | NHEL | 5 | 86 | 5.16 |
| 47 | Colvin silty clay loam | NHEL | 5 | 86 | 5.16 |
| I376A | Colvin silty clay loam, 0 to 1 percent slopes | NHEL | 5 | 86 | 5.16 |
| 1964 | Colvin-Fargo complex | NHEL | 5 | 86 | 5.16 |
| I124A | Colvin-Fargo complex, 0 to 2 percent slopes | NHEL | 5 | 86 | 5.16 |
| 721B | Corliss loamy sand, 1 to 6 percent slopes | HEL | 5 | 134 | 8.04 |
| I727B | Corliss loamy sand, 1 to 6 percent slopes | HEL | 5 | 134 | 8.04 |

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|-------|---|------|---|-----|-------|
| 117 | Cormant loamy fine sand | HEL | 5 | 134 | 8.04 |
| I97A | Cormant loamy fine sand, dense till, 0 to 2 percent slopes | HEL | 5 | 134 | 8.04 |
| I573A | Cormant loamy sand, 0 to 2 percent slopes | HEL | 5 | 134 | 8.04 |
| 547 | Deerwood muck | HEL | 3 | 134 | 13.40 |
| I11A | Deerwood muck, 0 to 1 percent slopes | HEL | 3 | 134 | 13.40 |
| I77A | Deerwood muck, dense till, 0 to 1 percent slopes | HEL | 3 | 134 | 13.40 |
| 550 | Dora muck | HEL | 4 | 134 | 10.05 |
| I739A | Dora muck, 0 to 1 percent slopes | HEL | 4 | 134 | 10.05 |
| 1187 | Dora muck, ponded | NHEL | 4 | 134 | 10.05 |
| I740A | Dora muck, ponded, 0 to 1 percent slopes | NHEL | 4 | 134 | 10.05 |
| 937 | Eaglepoint-Northcote complex | NHEL | 5 | 86 | 5.16 |
| 565 | Eckvoll loamy fine sand | HEL | 5 | 134 | 8.04 |
| I12A | Eckvoll loamy fine sand, 0 to 3 percent slopes | HEL | 5 | 134 | 8.04 |
| I804A | Eckvoll loamy fine sand, dense till, 0 to 3 percent slopes | HEL | 5 | 134 | 8.04 |
| 145 | Enstrom loamy fine sand | HEL | 5 | 134 | 8.04 |
| I747A | Enstrom loamy fine sand, 0 to 3 percent slopes | HEL | 5 | 134 | 8.04 |
| I106A | Enstrom loamy fine sand, dense till, 0 to 3 percent slopes | HEL | 5 | 134 | 8.04 |
| 645 | Espelie fine sandy loam | NHEL | 4 | 86 | 6.45 |
| I13A | Espelie fine sandy loam, till substratum, 0 to 2 percent slopes | NHEL | 4 | 86 | 6.45 |
| I229A | Fargo silty clay, 0 to 1 percent slopes | NHEL | 5 | 86 | 5.16 |
| 57A | Fargo silty clay, 0 to 2 percent slopes | NHEL | 5 | 86 | 5.16 |
| 1871 | Fargo silty clay, swales | NHEL | 5 | 86 | 5.16 |
| 66 | Flaming loamy fine sand | HEL | 5 | 134 | 8.04 |
| I109A | Fluvaquents, 0 to 2 percent slopes, frequently flooded | NHEL | 5 | 86 | 5.16 |
| I16F | Fluvaquents,frequently flooded-Hapludolls complex, 0 to 30 percent slopes | NHEL | 5 | 86 | 5.16 |
| 1006 | Fluvaquents-Haploborolls complex, 0 to 30 percent slopes, flooded | NHEL | 5 | 56 | 3.36 |
| I114A | Foldahl fine sandy loam, dense till, 0 to 3 percent slopes | HEL | 5 | 134 | 8.04 |
| I17A | Foldahl fine sandy loam, loamy till substratum, 0 to 3 percent slopes | HEL | 5 | 134 | 8.04 |
| 426 | Foldahl loamy fine sand | HEL | 5 | 134 | 8.04 |
| I18A | Foldahl loamy fine sand, loamy till substratum, 0 to 3 percent slopes | HEL | 5 | 134 | 8.04 |
| 65 | Foxhome sandy loam | HEL | 3 | 86 | 8.60 |
| I19A | Foxhome sandy loam, 0 to 3 percent slopes | HEL | 3 | 86 | 8.60 |
| I101A | Foxhome sandy loam, dense till, 0 to 3 percent slopes | HEL | 3 | 86 | 8.60 |
| I20A | Foxlake loam, 0 to 2 percent slopes | NHEL | 5 | 86 | 5.16 |
| 77 | Garnes fine sandy loam | NHEL | 5 | 48 | 2.88 |
| I693A | Garnes fine sandy loam, 0 to 3 percent slopes | NHEL | 5 | 48 | 2.88 |
| I507B | Glyndon loam, dry, 2 to 6 percent slopes | NHEL | 5 | 86 | 5.16 |
| 1304A | Glyndon very fine sandy loam, 0 to 2 percent slopes | NHEL | 5 | 86 | 5.16 |
| I23A | Glyndon very fine sandy loam, 0 to 2 percent slopes | NHEL | 5 | 86 | 5.16 |
| 1304B | Glyndon very fine sandy loam, 2 to 6 percent slopes | NHEL | 5 | 86 | 5.16 |
| I121A | Glyndon-Ulen complex, 0 to 2 percent slopes | HEL | 5 | 134 | 8.04 |
| 59 | Grimstad fine sandy loam | NHEL | 5 | 86 | 5.16 |
| I113A | Grimstad fine sandy loam, dense till, 0 to 2 percent slopes | NHEL | 5 | 86 | 5.16 |

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| 482 | Grygla loamy fine sand | HEL | 5 | 134 | 8.04 |
| I756A | Grygla loamy fine sand, 0 to 2 percent slopes | HEL | 5 | 134 | 8.04 |
| I116A | Grygla loamy fine sand, dense till, 0 to 2 percent slopes | HEL | 5 | 134 | 8.04 |
| 372 | Hamar loamy fine sand | HEL | 5 | 134 | 8.04 |
| I25A | Hamar loamy fine sand, 0 to 2 percent slopes | HEL | 5 | 134 | 8.04 |
| I26A | Hamerly loam, 0 to 2 percent slopes | NHEL | 5 | 86 | 5.16 |
| 184A | Hamerly loam, 0 to 3 percent slopes | NHEL | 5 | 86 | 5.16 |
| 1878 | Hamre muck | HEL | 5 | 134 | 8.04 |
| I27A | Hamre muck, 0 to 1 percent slopes | HEL | 5 | 134 | 8.04 |
| 1804 | Hamre muck, ponded | NHEL | 5 | 134 | 8.04 |
| 111 | Hangaard sandy loam | HEL | 2 | 86 | 12.90 |
| I28A | Hangaard sandy loam, 0 to 2 percent slopes | HEL | 2 | 86 | 12.90 |
| I105A | Hangaard sandy loam, dense till, 0 to 2 percent slopes | HEL | 2 | 86 | 12.90 |
| 187 | Haug muck | HEL | 5 | 134 | 8.04 |
| I88A | Haug muck, 0 to 1 percent slopes | HEL | 5 | 134 | 8.04 |
| I15A | Hecla loamy fine sand, 0 to 3 percent slopes | HEL | 5 | 134 | 8.04 |
| 935 | Hegne-Fargo complex | NHEL | 5 | 86 | 5.16 |
| I130A | Hegne-Fargo silty clays, 0 to 2 percent slopes | NHEL | 5 | 86 | 5.16 |
| 647 | Hilaire loamy fine sand | HEL | 4 | 134 | 10.05 |
| I33A | Hilaire loamy fine sand, 0 to 3 percent slopes | HEL | 4 | 134 | 10.05 |
| 643 | Huot fine sandy loam | NHEL | 4 | 86 | 6.45 |
| I34A | Huot fine sandy loam, clayey till substratum, 0 to 3 percent slopes | NHEL | 4 | 86 | 6.45 |
| 205 | Karlstad loamy sand | HEL | 3 | 134 | 13.40 |
| I76A | Karlstad loamy sand, 0 to 3 percent slopes | HEL | 3 | 134 | 13.40 |
| 58 | Kittson loam | NHEL | 5 | 56 | 3.36 |
| I690A | Kittson loam, wet, 0 to 3 percent slopes | NHEL | 5 | 56 | 3.36 |
| I37A | Kratka and Strathcona soils, 0 to 1 percent slopes | NHEL | 5 | 86 | 5.16 |
| 481 | Kratka fine sandy loam | NHEL | 5 | 86 | 5.16 |
| I38A | Kratka fine sandy loam, 0 to 2 percent slopes | NHEL | 5 | 86 | 5.16 |
| I103A | Kratka fine sandy loam, dense till, 0 to 2 percent slopes | NHEL | 5 | 86 | 5.16 |
| 418 | Lamoure silty clay loam, occasionally flooded | NHEL | 5 | 86 | 5.16 |
| 713 | Linveltdt fine sandy loam | HEL | 5 | 134 | 8.04 |
| I39A | Linveltdt fine sandy loam, 0 to 3 percent slopes | HEL | 5 | 134 | 8.04 |
| I811A | Linveltdt fine sandy loam, dense till, 0 to 3 percent slopes | HEL | 5 | 134 | 8.04 |
| 546 | Lupton muck | HEL | 5 | 134 | 8.04 |
| 543 | Markey muck | HEL | 4 | 134 | 10.05 |
| I41A | Markey muck, 0 to 1 percent slopes | HEL | 4 | 134 | 10.05 |
| 1808 | Markey muck, ponded | NHEL | 4 | 134 | 10.05 |
| I42A | Markey muck, ponded, 0 to 1 percent slopes | HEL | 4 | 134 | 10.05 |
| 242B | Marquette loamy sand, 1 to 8 percent slopes | HEL | 2 | 134 | 20.10 |
| I78B | Marquette loamy sand, 1 to 8 percent slopes | HEL | 2 | 134 | 20.10 |
| 412 | Mavie fine sandy loam | HEL | 3 | 86 | 8.60 |
| I43A | Mavie fine sandy loam, 0 to 2 percent slopes | HEL | 3 | 86 | 8.60 |

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| I102A | Mavie fine sandy loam, dense till, 0 to 2 percent slopes | HEL | 3 | 86 | 8.60 |
| IM-W | Miscellaneous water | NHEL | | | |
| 583 | Nereson fine sandy loam | NHEL | 5 | 86 | 5.16 |
| I89A | Nereson fine sandy loam, 0 to 3 percent slopes, very cobbly | NHEL | 5 | 86 | 5.16 |
| 648 | Newfolden loam | NHEL | 5 | 56 | 3.36 |
| I44A | Newfolden loam, 0 to 3 percent slopes | NHEL | 5 | 56 | 3.36 |
| I133A | Northcote clay, 0 to 1 percent slopes | NHEL | 5 | 86 | 5.16 |
| 429A | Northcote clay, 0 to 2 percent slope | NHEL | 5 | 86 | 5.16 |
| I132A | Northcote-Eaglepoint clays, 0 to 2 percent slopes | NHEL | 5 | 86 | 5.16 |
| 563 | Northwood muck | HEL | 5 | 134 | 8.04 |
| I45A | Northwood muck, 0 to 1 percent slopes | HEL | 5 | 134 | 8.04 |
| I81A | Northwood muck, dense till, 0 to 1 percent slopes | HEL | 5 | 134 | 8.04 |
| 1146 | Northwood muck, ponded | NHEL | 5 | 134 | 8.04 |
| 280 | Pelan sandy loam | HEL | 3 | 86 | 8.60 |
| I72A | Pelan sandy loam, 0 to 3 percent slopes | HEL | 3 | 86 | 8.60 |
| I87A | Pelan sandy loam, dense till, 0 to 3 percent slopes | HEL | 3 | 86 | 8.60 |
| 383 | Percy loam | NHEL | 5 | 86 | 5.16 |
| I84A | Percy loam, 0 to 2 percent slopes, very cobbly | HEL | 5 | 134 | 8.04 |
| 379 | Percy loam, very cobbly | NHEL | 5 | 86 | 5.16 |
| I86A | Percy mucky loam, 0 to 1 percent slopes | NHEL | 5 | 86 | 5.16 |
| 384 | Percy mucky loam, depressional | HEL | 5 | 134 | 8.04 |
| IGp | Pits, gravel and sand | HEL | 5 | 134 | 8.04 |
| 1030 | Pits, gravel-Udipsamments complex | HEL | 5 | 134 | 8.04 |
| 148 | Poppleton fine sand | HEL | 5 | 134 | 8.04 |
| I47A | Poppleton fine sand, 0 to 2 percent slopes | HEL | 5 | 134 | 8.04 |
| I118A | Poppleton fine sand, dense till, 0 to 2 percent slopes | HEL | 5 | 134 | 8.04 |
| 1874 | Radium loamy sand | HEL | 5 | 134 | 8.04 |
| I48A | Radium loamy sand, 0 to 3 percent slopes | HEL | 5 | 134 | 8.04 |
| I75A | Radium-Sandberg-Garborg complex, 0 to 3 percent slopes | HEL | 5 | 134 | 8.04 |
| 116 | Redby loamy fine sand | HEL | 5 | 134 | 8.04 |
| I90A | Redby loamy fine sand, dense till, 0 to 3 percent slopes | HEL | 5 | 134 | 8.04 |
| 650 | Reiner fine sandy loam | NHEL | 5 | 86 | 5.16 |
| I50A | Reiner fine sandy loam, 0 to 3 percent slopes | NHEL | 5 | 86 | 5.16 |
| 649 | Reiner loamy fine sand | HEL | 5 | 134 | 8.04 |
| I51A | Reiner loamy fine sand, 0 to 3 percent slopes | HEL | 5 | 134 | 8.04 |
| I822A | Reiner loamy fine sand, dense till, 0 to 3 percent slopes | HEL | 5 | 134 | 8.04 |
| I52A | Reis-Clearwater complex, 0 to 2 percent slopes | NHEL | 5 | 86 | 5.16 |
| 541 | Rifle mucky peat | NHEL | 5 | 56 | 3.36 |
| I260A | Rifle mucky peat, 0 to 1 percent slopes | NHEL | 5 | 56 | 3.36 |
| I171A | Rockwell fine sandy loam, 0 to 1 percent slopes | HEL | 3 | 86 | 8.60 |
| 582 | Roliss loam | NHEL | 5 | 48 | 2.88 |
| I53A | Roliss loam, 0 to 2 percent slopes | NHEL | 5 | 48 | 2.88 |
| I705A | Roliss loam, dense till, 0 to 2 percent slopes | NHEL | 5 | 48 | 2.88 |

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| 387 | Roliss loam, depressional | NHEL | 5 | 48 | 2.88 |
| I54A | Roliss loam, very poorly drained, 0 to 1 percent slopes | NHEL | 5 | 48 | 2.88 |
| I706A | Roliss loam, very poorly drained, dense till, 0 to 1 percent slopes | NHEL | 5 | 48 | 2.88 |
| 972 | Roliss-Vallers complex | NHEL | 5 | 48 | 2.88 |
| I707A | Roliss-Vallers loams, 0 to 1 percent slopes | NHEL | 5 | 48 | 2.88 |
| 712 | Rosewood fine sandy loam | HEL | 3 | 86 | 8.60 |
| I55A | Rosewood fine sandy loam, 0 to 2 percent slopes | HEL | 3 | 86 | 8.60 |
| I91A | Rosewood fine sandy loam, dense till, 0 to 2 percent slopes | HEL | 3 | 86 | 8.60 |
| I788A | Rosewood, Strathcona, and Berner soils, 0 to 2 percent slopes | HEL | 3 | 86 | 8.60 |
| 1882 | Rosewood, Strathcona, and Berner soils, seepy | HEL | 3 | 86 | 8.60 |
| 1966 | Rosewood-Hamar complex | HEL | 3 | 86 | 8.60 |
| 708 | Rushlake loamy sand | HEL | 5 | 134 | 8.04 |
| I824A | Rushlake loamy sand, 0 to 3 percent slopes | HEL | 5 | 134 | 8.04 |
| 1191 | Sahkahtay sandy loam | NHEL | 5 | 86 | 5.16 |
| 258B | Sandberg loamy sand, 1 to 6 percent slopes | HEL | 5 | 134 | 8.04 |
| I57B | Sandberg-Radium complex, 1 to 6 percent slopes | HEL | 5 | 134 | 8.04 |
| 540 | Seelyeville muck | HEL | 5 | 134 | 8.04 |
| I58A | Seelyeville muck, 0 to 1 percent slopes | HEL | 5 | 134 | 8.04 |
| 1031 | Seelyeville muck, ponded | NHEL | 5 | 134 | 8.04 |
| 1158 | Skagen loam | NHEL | 5 | 86 | 5.16 |
| I125A | Skagen loam, 0 to 3 percent slopes | NHEL | 5 | 86 | 5.16 |
| I117A | Skagen loam, 0 to 3 percent slopes, very cobbly | NHEL | 5 | 86 | 5.16 |
| 1170 | Skagen loam, very cobbly | NHEL | 5 | 86 | 5.16 |
| 765 | Smiley loam | NHEL | 5 | 56 | 3.36 |
| I59A | Smiley loam, 0 to 2 percent slopes | NHEL | 5 | 56 | 3.36 |
| I60A | Smiley mucky loam, 0 to 1 percent slopes | NHEL | 5 | 56 | 3.36 |
| 653 | Smiley mucky loam, depressional | NHEL | 5 | 56 | 3.36 |
| 432 | Strandquist loam | HEL | 3 | 86 | 8.60 |
| I61A | Strandquist loam, 0 to 2 percent slopes | HEL | 3 | 86 | 8.60 |
| I104A | Strandquist loam, dense till, 0 to 2 percent slopes | HEL | 3 | 86 | 8.60 |
| 1144 | Strathcona and Kratka soils, depressional | NHEL | 5 | 86 | 5.16 |
| 439 | Strathcona fine sandy loam | NHEL | 5 | 86 | 5.16 |
| I94A | Strathcona fine sandy loam, dense till, 0 to 2 percent slopes | NHEL | 5 | 86 | 5.16 |
| 435 | Syrene sandy loam | HEL | 3 | 86 | 8.60 |
| I62A | Syrene sandy loam, 0 to 2 percent slopes | HEL | 3 | 86 | 8.60 |
| I108A | Syrene sandy loam, dense till, 0 to 2 percent slopes | HEL | 3 | 86 | 8.60 |
| 514 | Tacoosh muck | NHEL | 5 | 56 | 3.36 |
| 651 | Thiefriver fine sandy loam | HEL | 3 | 86 | 8.60 |
| I850A | Thiefriver fine sandy loam, 0 to 2 percent slopes | HEL | 3 | 86 | 8.60 |
| I63A | Thiefriver fine sandy loam, clayey till substratum, 0 to 2 percent slopes | HEL | 3 | 86 | 8.60 |
| I64A | Ulen fine sandy loam, 0 to 3 percent slopes | HEL | 5 | 134 | 8.04 |
| I98A | Ulen fine sandy loam, dense till, 0 to 3 percent slopes | HEL | 5 | 134 | 8.04 |
| 1264 | Ulen loamy fine sand | HEL | 5 | 134 | 8.04 |

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| I65A | Ulen loamy fine sand, 0 to 3 percent slopes | HEL | 5 | 134 | 8.04 |
| 236 | Vallers loam | NHEL | 5 | 86 | 5.16 |
| I66A | Vallers loam, 0 to 2 percent slopes | NHEL | 5 | 86 | 5.16 |
| 157A | Wahpeton silty clay, 0 to 2 percent slopes, occasionally flooded | NHEL | 5 | 86 | 5.16 |
| I248A | Wahpeton silty clay, 0 to 2 percent slopes, occasionally flooded | NHEL | 5 | 86 | 5.16 |
| 157B | Wahpeton silty clay, 2 to 6 percent slopes, occasionally flooded | NHEL | 5 | 86 | 5.16 |
| I248B | Wahpeton silty clay, 2 to 6 percent slopes, occasionally flooded | NHEL | 5 | 86 | 5.16 |
| I135B | Wahpeton-Ludden silty clays, 0 to 6 percent slopes, flooded | NHEL | 5 | 86 | 5.16 |
| IWa | Water | NHEL | | | |
| W | Water | | | | |
| 1356 | Water, miscellaneous | | | | |
| 1315A | Wheatville very fine sandy loam, 0 to 2 percent slopes | NHEL | 4 | 86 | 6.45 |
| 630 | Wildwood muck | HEL | 3 | 134 | 13.40 |
| I833A | Wildwood muck, 0 to 1 percent slopes | HEL | 3 | 134 | 13.40 |
| 1188 | Wildwood muck, ponded | NHEL | 3 | 134 | 13.40 |
| 652 | Wyandotte clay loam | HEL | 3 | 86 | 8.60 |
| I69A | Wyandotte clay loam, 0 to 2 percent slopes | HEL | 3 | 86 | 8.60 |
| I150B | Zell, fine-silty-LaDelle silt loams, 2 to 6 percent slopes | NHEL | 5 | 86 | 5.16 |